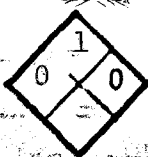


HMIS



Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072



IDENTITY (As Used on Label and List)

CS 3207

(PART A)

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I CONTRACT

Manufacturer's Name

FLAMEMASTER CORP.

Emergency Telephone Number

1-(800) 424-9300 CHEM TREC

Address (Number, Street, City, State, and ZIP Code)

11120 SHERMAN WAY

Telephone Number for Information

1-(818) 982-1650

Date Prepared

MAY 17, 1989

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

NSN

Hazardous Components (Specific Chemical Identity; Common Name(s))

OSHA PEL

ACGIH TLV

NIOSH #

CAS #

METHYL BENZENE; TOLUENE

200 PPM

100 PPM

XS5250000

108-88-3

Section III — Physical/Chemical Characteristics

Boiling Point

0
F

231

Specific Gravity (H₂O = 1)

1.50

Vapor Pressure (mm Hg.)

2

Melting Point

LIQUID AT ROOM TEMP.

Vapor Density (Air = 1)

3.1

Evaporation Rate

(Butyl Acetate = 1)

0.02

Solubility in Water

NEGLECTIBLE

Appearance and Odor

WHITE PASTE, POLYSULFIDE ODOR

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)

54⁰C ; 130⁰F

TCC

Flammable Limits

LEL

1.3

UEL

7.1

Extinguishing Media

DRY CHEMICAL, CO₂, FOAM, WATER

Special Fire Fighting Procedures

WEAR SELF-CONTAINED BREATHING APPARATUS, IN CONFINED AREAS.

Unusual Fire and Explosion Hazards

VAPORS ARE HEAVIER THAN AIR AND CAN TRAVEL TO SOURCES

OF IGNITION.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	HIGH HEAT OR OPEN FLAME.

Incompatibility (Materials to Avoid)

AVIOD STRONG OXIDIZING AGENTS.

Hazardous Decomposition or Byproducts

SO₂, CO₂, H₂S, SOOT, CO

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	YES	NO	YES

Health Hazards (Acute and Chronic)

MAY CAUSE EYE, SKIN AND NOSE IRRITATION. MAY LEAD MUSCULAR WEAKNESS AND DIZZINESS. LONG TERM EXPOSURE MAY LEAD TO DERMATITIS, LIVER AND KIDNEY DAMAGE.

Carcinogenicity:	NTP?	IARC Monographs?	CSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure

EYE, NOSE OR SKIN IRRITATION. HEADACHE AND NAUSEA WITH IMPAIRED COORDINATION.

Medical Conditions

Generally Aggravated by Exposure PRE-EXISTING SKIN DISORDERS, RESPIRATORY TRACT; LIVER OR KIDNEY DISEASE.

Emergency and First Aid Procedures

EYE CONTACT - FLUSH IMMEDIATELY WITH LARGE AMOUNT OF WATER, CONTACT PHYSICIAN. SKIN - WASH WITH MILD SOAP AND WATER.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

REMOVE IGNITION SOURCES. TRANSFER TO SAFETY CONTAINER, CLEAN UP REMAINDER WITH SAND OR SWEEPING COMPOUND. WASH AREA WITH SOAP AND WATER.

Waste Disposal Method

REACT WITH CURING AGENT AND DISPOSE AS SOLID HAZARDOUS WASTE ACCORDING TO FEDERAL STATE AND LOCAL REGULATIONS.

Precautions to Be Taken in Handling and Storing

STORE IN COOL, WELL VENTILATED AREA. GROUND CONTAINERS WHEN FILLING OR EMPTYING.

Other Precautions

WASH HANDS BEFORE EATING DRINKING OR SMOKEING, AFTER HANDLING THIS PRODUCT.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

FOR VAPORS ABOVE 200 PPM NEED SELF-CONTAINED BREATHING APPARATUS.

Ventilation	Local Exhaust	Special
	HOOD	
	Mechanical (General)	Other
	FAN	

Protective Gloves

RUBBER

Eye Protection

SAFETY GLASSES/FACE SHIELD

Other Protective Clothing or Equipment

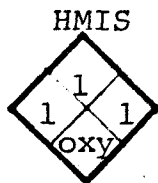
APPROPRIATE TO PREVENT PROLONGED CONTACT WITH SKIN.

Work Hygiene Practices

TRAIN PERSONNEL IN SAFE HANDLING OF THIS PRODUCT.

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.



U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072



IDENTITY (As Used on Label and List)

CS 3207 PART B

Note: Blank spaces are not permitted. If any item is not applicable, or no
 information is available, the space must be marked to indicate that.

Section I CONTRACT

Manufacturer's Name FLAMEMASTER CORP	Emergency Telephone Number 1-(800) 424-9300 CHEM TREC
Address (Number, Street, City, State, and ZIP Code) 11120 SHERMAN WAY	Telephone Number for Information 1-(818) 982-1650
SUN VALLEY, CALIF. 91352	Date Prepared MAY 2, 1989
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

NSN

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	NIOSH #	CAS #
LEAD DIOXIDE*	0.05 mg/M ³	0.15mg/M ³	OG0700000	1309-60-0
LEAD OXIDE*	0.05 mg/M ³	0.15mg/M ³	OG1750000	1317-36-8

*THE EXPOSURE LIMITS ARE BASED ON DUST PARTICLES..IN THIS PRODUCT THE LEAD
 DIOXIDE/OXIDE PARTICLES ARE WETTED OUT THEREFORE AIRBORNE PARTICLES WILL NOT
 RESULT FROM NORMAL USE.

Section III — Physical/Chemical Characteristics

Boiling Point VEHICLE °C	340	Specific Gravity (H ₂ O = 1)	3.00
Vapor Pressure (mm Hg.)	NIL	Meting Point	LIQUID AT ROOM TEMP.
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	NIL

Solubility in Water

NEGLIGIBLE

Appearance and Odor

BROWN PASTE OILY ODOR

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) > 93 ⁰ C > 200 ⁰ F TCC	Flammable Limits N/A	LEL	UEL
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Extinguishing Media

FOAM, DRY CHEMICAL, CO₂, WATER

Special Fire Fighting Procedures

USE A SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE, IN CONFINED
 AREAS.

Unusual Fire and Explosion Hazards

FIRE HAZARD EXISTS IF CONTACT WITH OXIDIZABLE MATERIALS

AT HIGH TEMPERATURES OCCURS.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	HIGH HEAT

Incompatibility (Materials to Avoid)

OXIDIZABLE MATERIALS

Hazardous Decomposition or Byproducts

LEAD OXIDE DUST AND ORGANICS

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	NO	NO	YES

Health Hazards (Acute and Chronic)

ACUTE: WEAKNESS, STUPOR.

CHRONIC: KIDNEY DAMAGE, ANEMIA, REPRODUCTIVE DEFECTS

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure

HEADACHE, MUSCLE AND JOINT PAIN, NEUROMUSCULAR DYSFUNCTION.

Medical Conditions

Generally Aggravated by Exposure ANEMIA, KIDNEY DISEASE, PREGNANCY.

Emergency and First Aid Procedures

INGESTION: INDUCE VOMITING, CONSULT A PHYSICIAN AT ONCE.

EYE CONTACT: FLUSH WITH LARGE AMOUNT OF WATER AND CONTACT PHYSICIAN.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

SCOOP UP AND TRANSFER TO A SAFETY CONTAINER.

Waste Disposal Method

RETURN TO SMELTER FOR RECLAMATION OR REACT WITH BASE AND DISPOSE

ACCORDING TO FEDERAL STATE AND LOCAL REGULATIONS.

Precautions to Be Taken in Handling and Storing

STORE IN COOL DRY AREA. KEEP CONTAINERS CLOSED

Other Precautions

WASH HANDS BEFORE EATING, DRINKING OR SMOKING.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

IF DUST IS FORMED USE NIOSH APPROVED RESPIRATOR.

Ventilation	Local Exhaust	Special
	AIR HOOD	
	Mechanical (General)	Other
	FAN	

Protective Gloves

RUBBER

Eye Protection

SAFETY GLASSES

Other Protective Clothing or Equipment

APPROPRIATE TO AVOID PROLONGED CONTACT.

Work/Hygienic Practices

TRAIN PERSONNEL IN THE SAFE HANDLING OF THIS PRODUCT.